FIG.1A

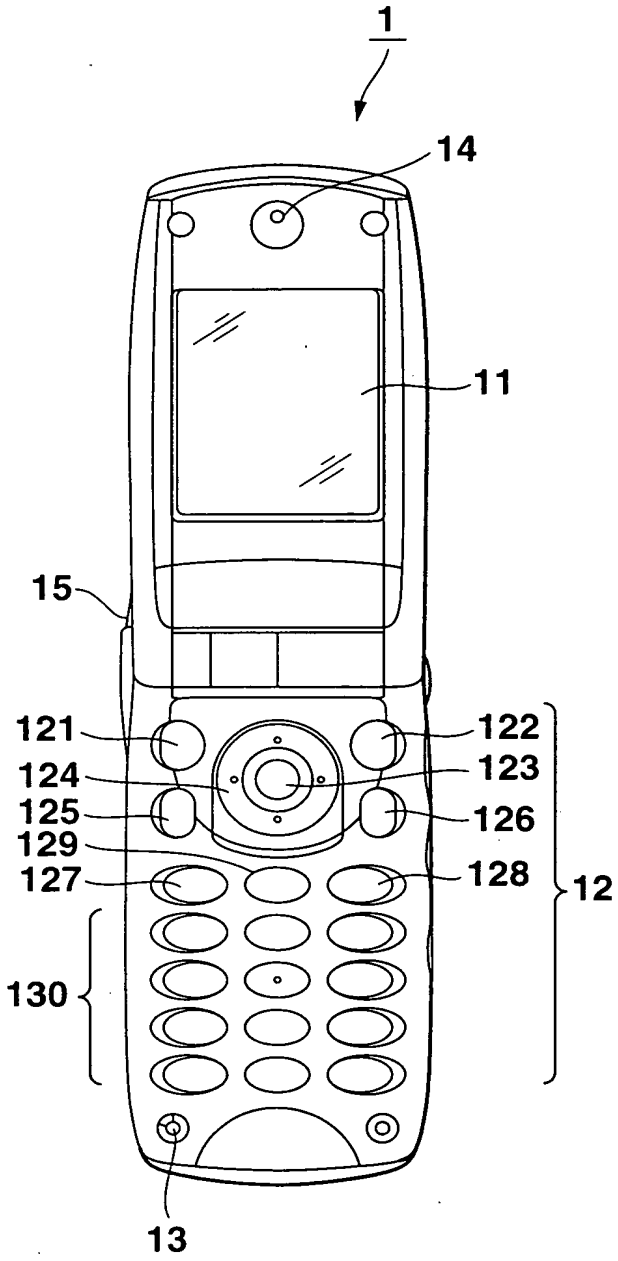

1
14
11
15
121
122
124
123
125
126
129
127
128
12
130
13

FIG.1B

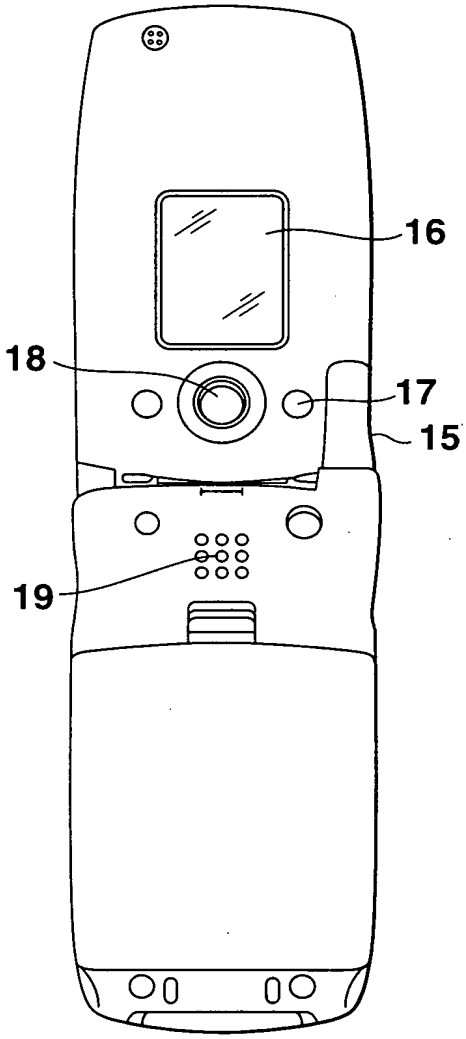

16
18
17
15
19

FIG.2

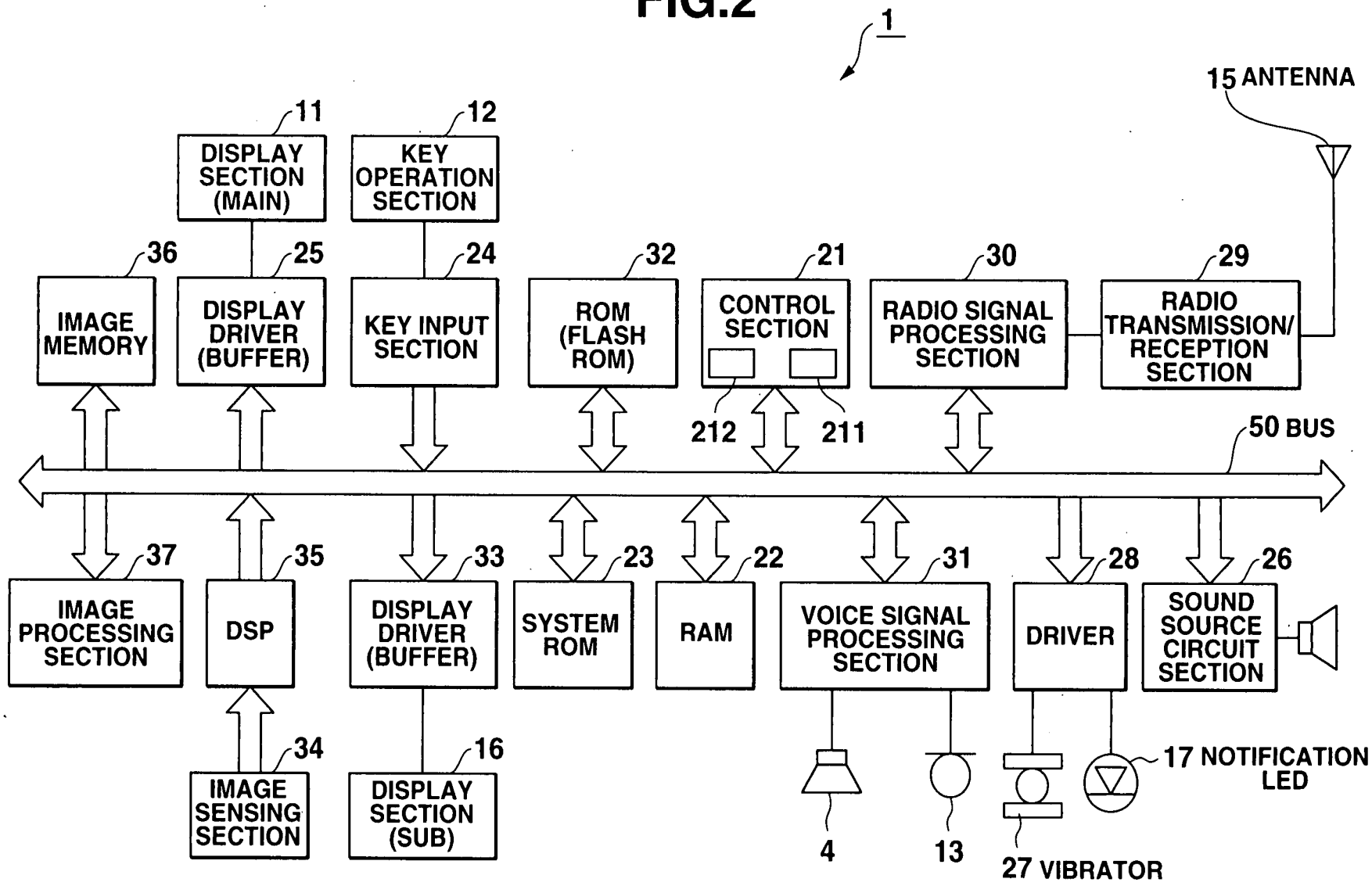

1
15 ANTENNA
11
DISPLAY SECTION (MAIN)
12
KEY OPERATION SECTION
36
IMAGE MEMORY
25
DISPLAY DRIVER (BUFFER)
24
KEY INPUT SECTION
32
ROM (FLASH ROM)
21
CONTROL SECTION
212
211
30
RADIO SIGNAL PROCESSING SECTION
29
RADIO TRANSMISSION/ RECEPTION SECTION
50 BUS
37
IMAGE PROCESSING SECTION
35
DSP
33
DISPLAY DRIVER (BUFFER)
23
SYSTEM ROM
22
RAM
31
VOICE SIGNAL PROCESSING SECTION
28
DRIVER
26
SOUND SOURCE CIRCUIT SECTION
34
IMAGE SENSING SECTION
16
DISPLAY SECTION (SUB)
4
13
17 NOTIFICATION LED
27 VIBRATOR

FIG.3

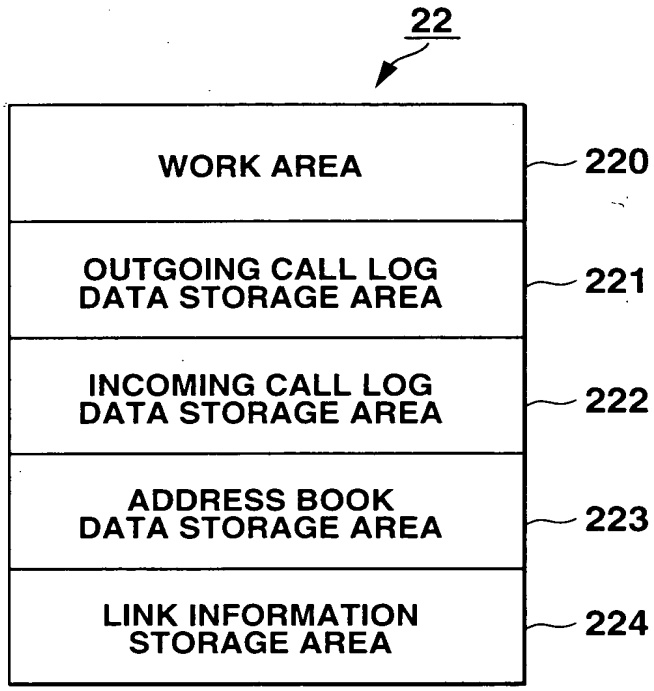

22
WORK AREA
220
OUTGOING CALL LOG DATA STORAGE AREA
221
INCOMING CALL LOG DATA STORAGE AREA
222
ADDRESS BOOK DATA STORAGE AREA
223
LINK INFORMATION STORAGE AREA
224

FIG.4

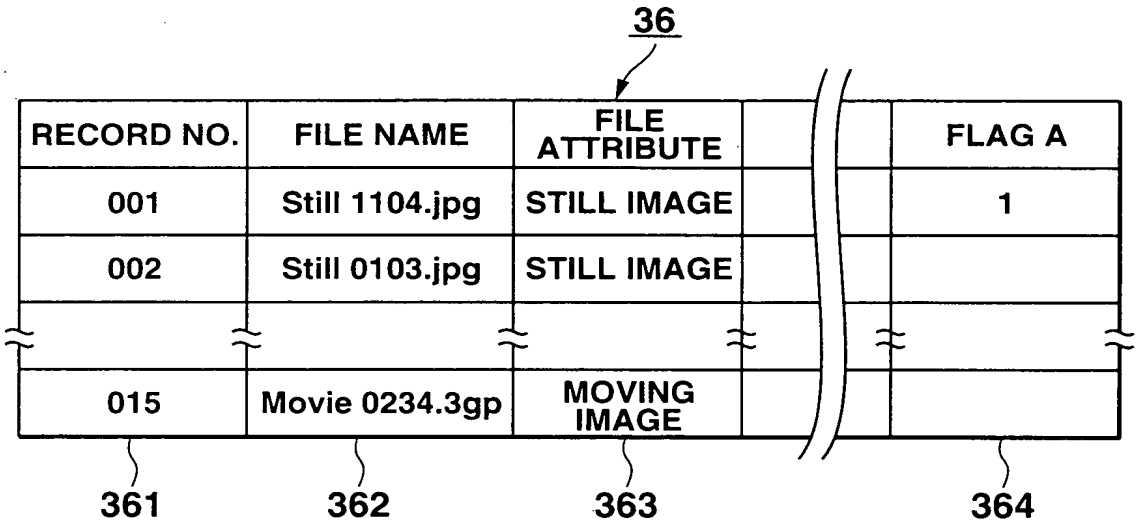

36
RECORD NO.
FILE NAME
FILE ATTRIBUTE
FLAG A
001
Still 1104.jpg
STILL IMAGE
1
002
Still 0103.jpg
STILL IMAGE
015
Movie 0234.3gp
MOVING IMAGE
361
362
363
364

FIG.5A

221

RECORD NO.	ORIGINATING DATE	FLAG B	CALLEE TELEPHONE NUMBER	RECORD NO. OF ADDRESS BOOK DATA	FLAG C1	FLAG C2
01	APRIL 19, 9:52	1		01	1	1
02	DECEMBER 13, 9:27	0	09020001234		0	
03	DECEMBER 14, 21:30	1		03	0	
04	DECEMBER 14, 21:16	1		02	0	

2211 2212 2213 2214 2215 2216 2217

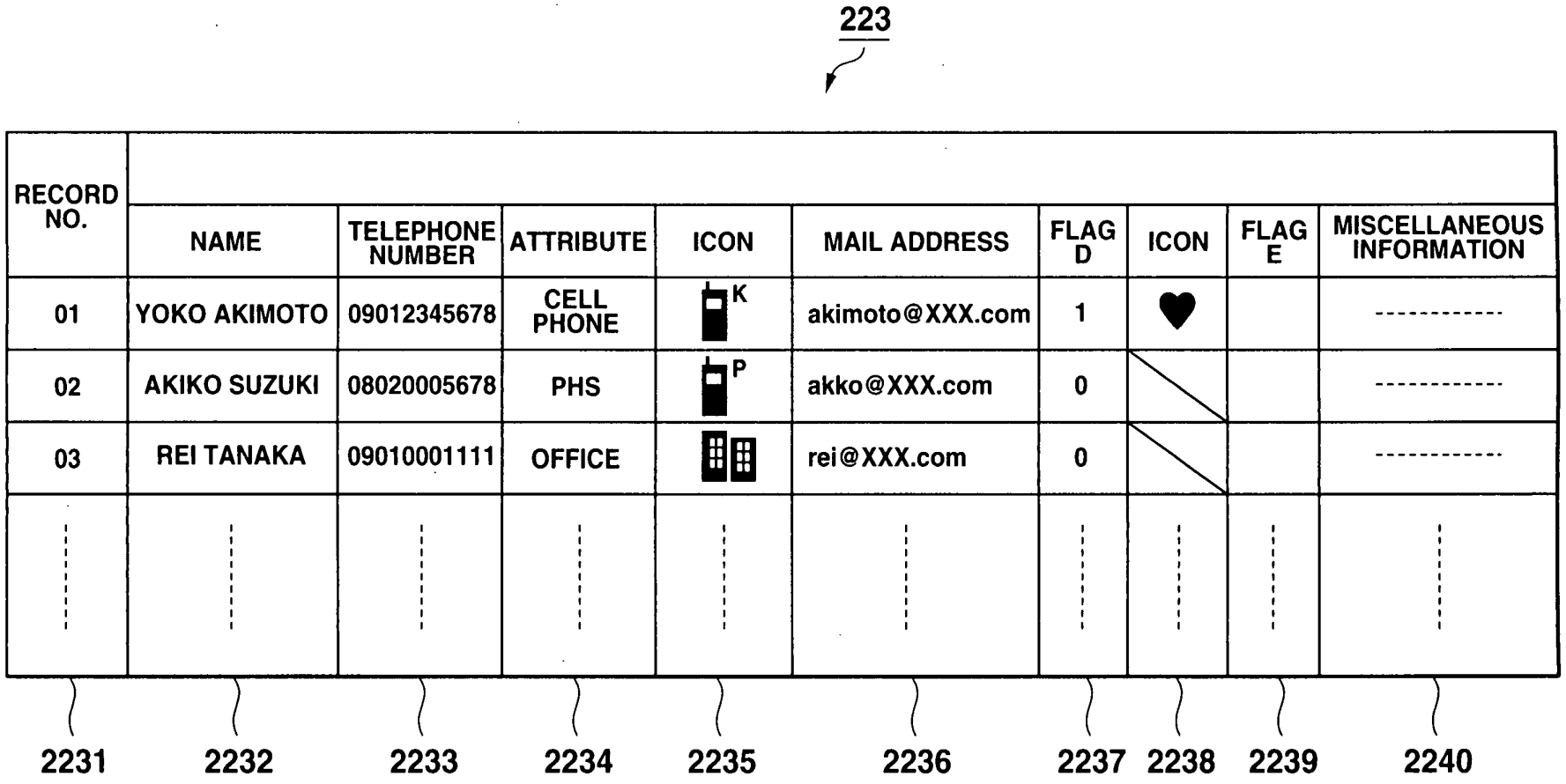
FIG.5B

221

RECORD NO.	ORIGINATING DATE	FLAG B	CALLEE TELEPHONE NUMBER	RECORD NO. OF ADDRESS BOOK DATA	FLAG C1	FLAG C2
01	APRIL 19, 9:52	1		01	1	
02	DECEMBER 13, 9:27	0	09020001234		0	
03	DECEMBER 14, 21:30	1		03	0	
04	DECEMBER 14, 21:16	0	08020005678		0	

2211 2212 2213 2214 2215 2216 2217

FIG.6


223
RECORD NO.
NAME
TELEPHONE NUMBER
ATTRIBUTE
ICON
MAIL ADDRESS
FLAG D
ICON
FLAG E
MISCELLANEOUS INFORMATION
01
YOKO AKIMOTO
09012345678
CELL PHONE
K
akimoto@XXX.com
1

02
AKIKO SUZUKI
08020005678
PHS
P
akko@XXX.com
0

03
REI TANAKA
09010001111
OFFICE
rei@XXX.com
0

2231
2232
2233
2234
2235
2236
2237
2238
2239
2240

FIG.7

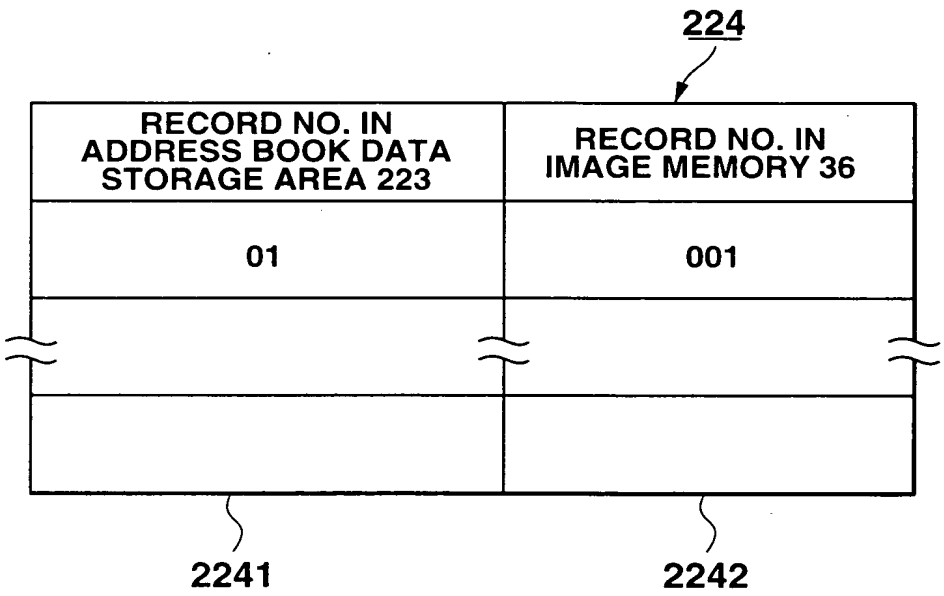

224
RECORD NO. IN ADDRESS BOOK DATA STORAGE AREA 223
RECORD NO. IN IMAGE MEMORY 36
01
001
2241
2242

FIG.8

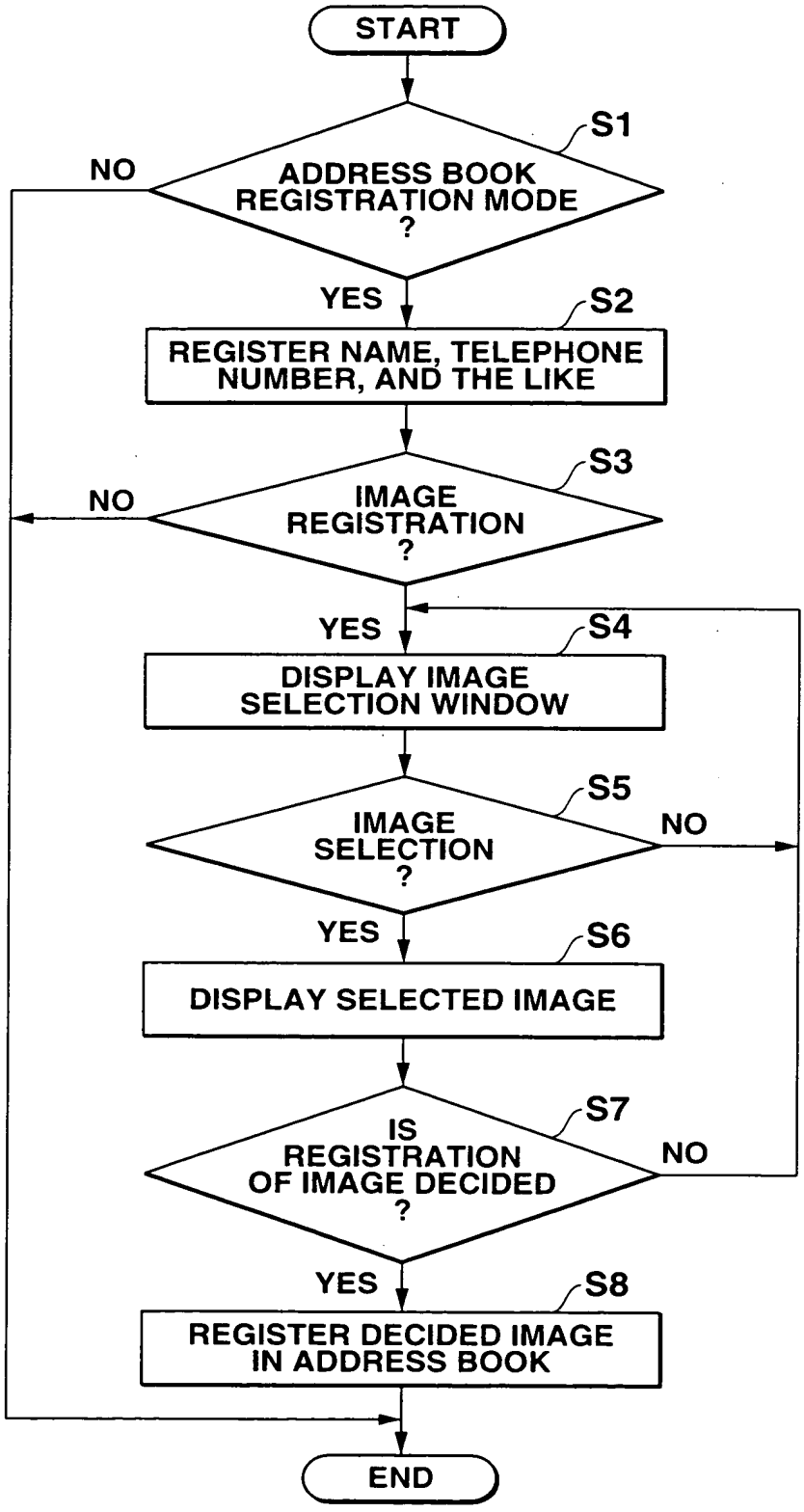

START
S1
ADDRESS BOOK REGISTRATION MODE ?
NO
YES
S2
REGISTER NAME, TELEPHONE NUMBER, AND THE LIKE
S3
IMAGE REGISTRATION ?
NO
YES
S4
DISPLAY IMAGE SELECTION WINDOW
S5
IMAGE SELECTION ?
NO
YES
S6
DISPLAY SELECTED IMAGE
S7
IS REGISTRATION OF IMAGE DECIDED ?
NO
YES
S8
REGISTER DECIDED IMAGE IN ADDRESS BOOK
END

FIG.9

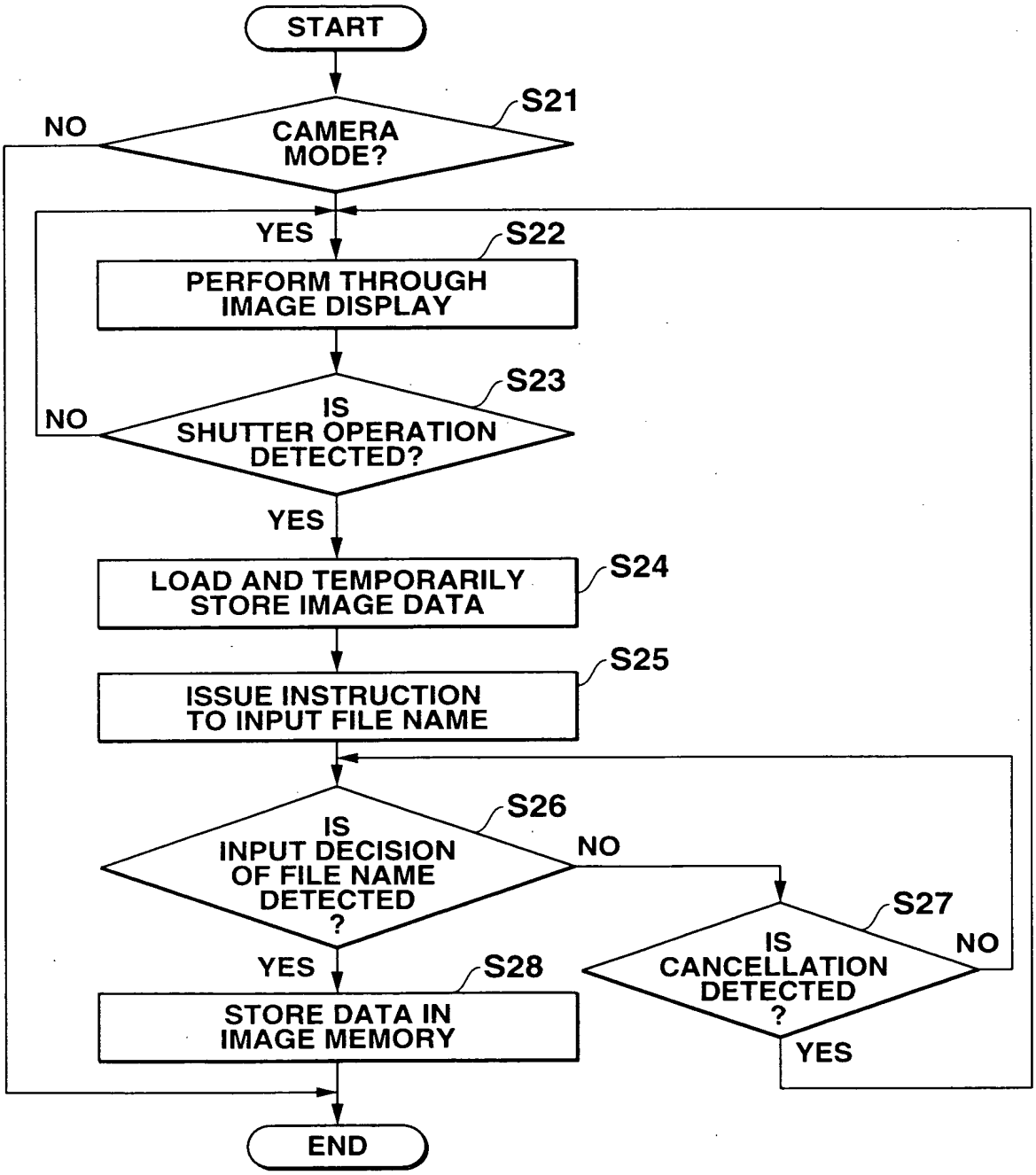

START
S21
CAMERA MODE?
NO
YES
S22
PERFORM THROUGH IMAGE DISPLAY
S23
IS SHUTTER OPERATION DETECTED?
NO
YES
S24
LOAD AND TEMPORARILY STORE IMAGE DATA
S25
ISSUE INSTRUCTION TO INPUT FILE NAME
S26
IS INPUT DECISION OF FILE NAME DETECTED ?
NO
S27
IS CANCELLATION DETECTED ?
NO
YES
YES
S28
STORE DATA IN IMAGE MEMORY
END

FIG.10

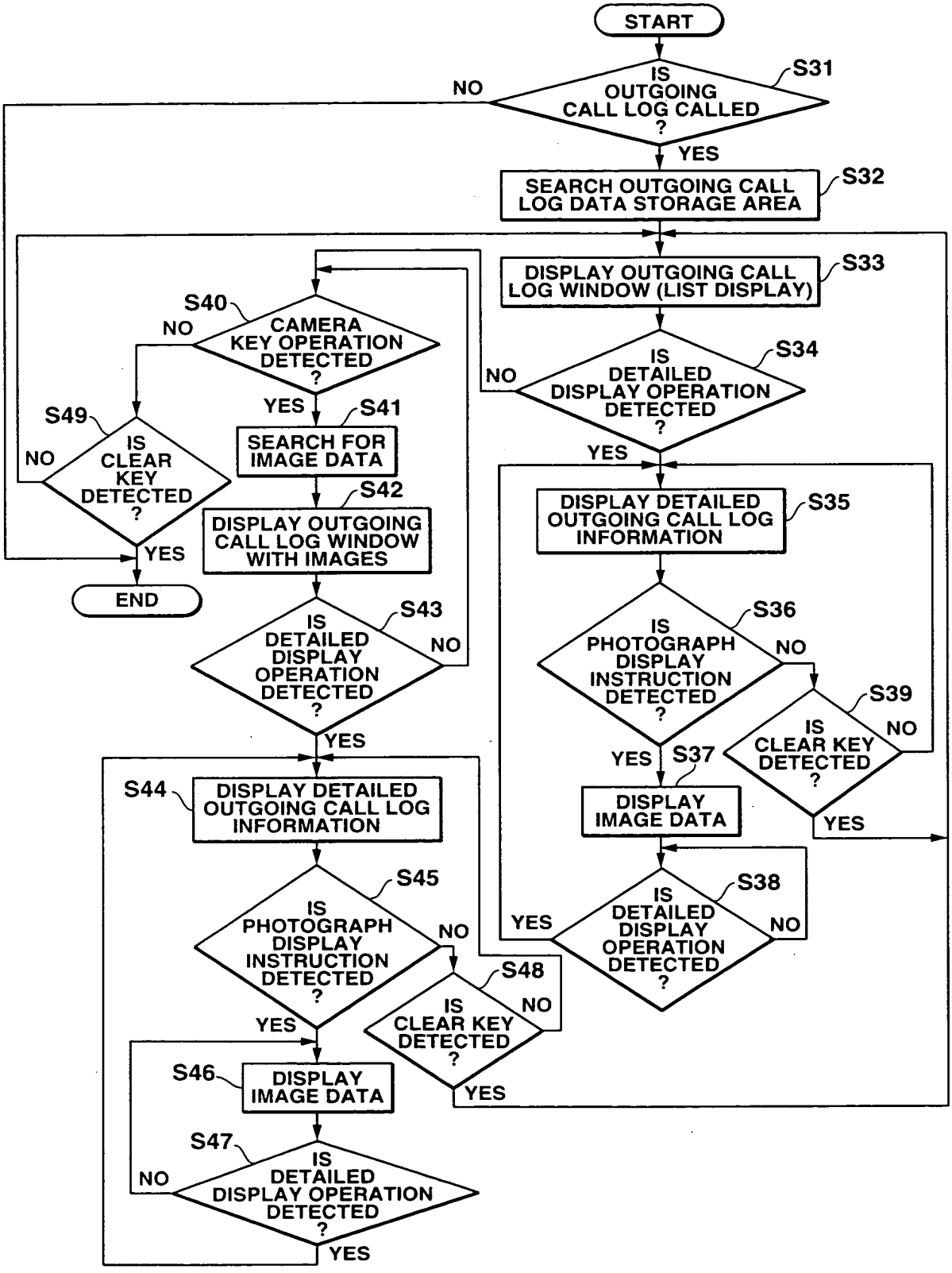

START
S31
IS OUTGOING CALL LOG CALLED ?
NO
YES
S32
SEARCH OUTGOING CALL LOG DATA STORAGE AREA
S33
DISPLAY OUTGOING CALL LOG WINDOW (LIST DISPLAY)
S34
IS DETAILED DISPLAY OPERATION DETECTED ?
NO
YES
S35
DISPLAY DETAILED OUTGOING CALL LOG INFORMATION
S36
IS PHOTOGRAPH DISPLAY INSTRUCTION DETECTED ?
NO
YES
S37
DISPLAY IMAGE DATA
S38
IS DETAILED DISPLAY OPERATION DETECTED ?
YES
NO
S39
IS CLEAR KEY DETECTED ?
NO
YES
S40
CAMERA KEY OPERATION DETECTED ?
NO
YES
S41
SEARCH FOR IMAGE DATA
S42
DISPLAY OUTGOING CALL LOG WINDOW WITH IMAGES
S43
IS DETAILED DISPLAY OPERATION DETECTED ?
NO
YES
S44
DISPLAY DETAILED OUTGOING CALL LOG INFORMATION
S45
IS PHOTOGRAPH DISPLAY INSTRUCTION DETECTED ?
NO
YES
S46
DISPLAY IMAGE DATA
S47
IS DETAILED DISPLAY OPERATION DETECTED ?
NO
YES
S48
IS CLEAR KEY DETECTED ?
NO
YES
S49
IS CLEAR KEY DETECTED ?
NO
YES
END

FIG.11

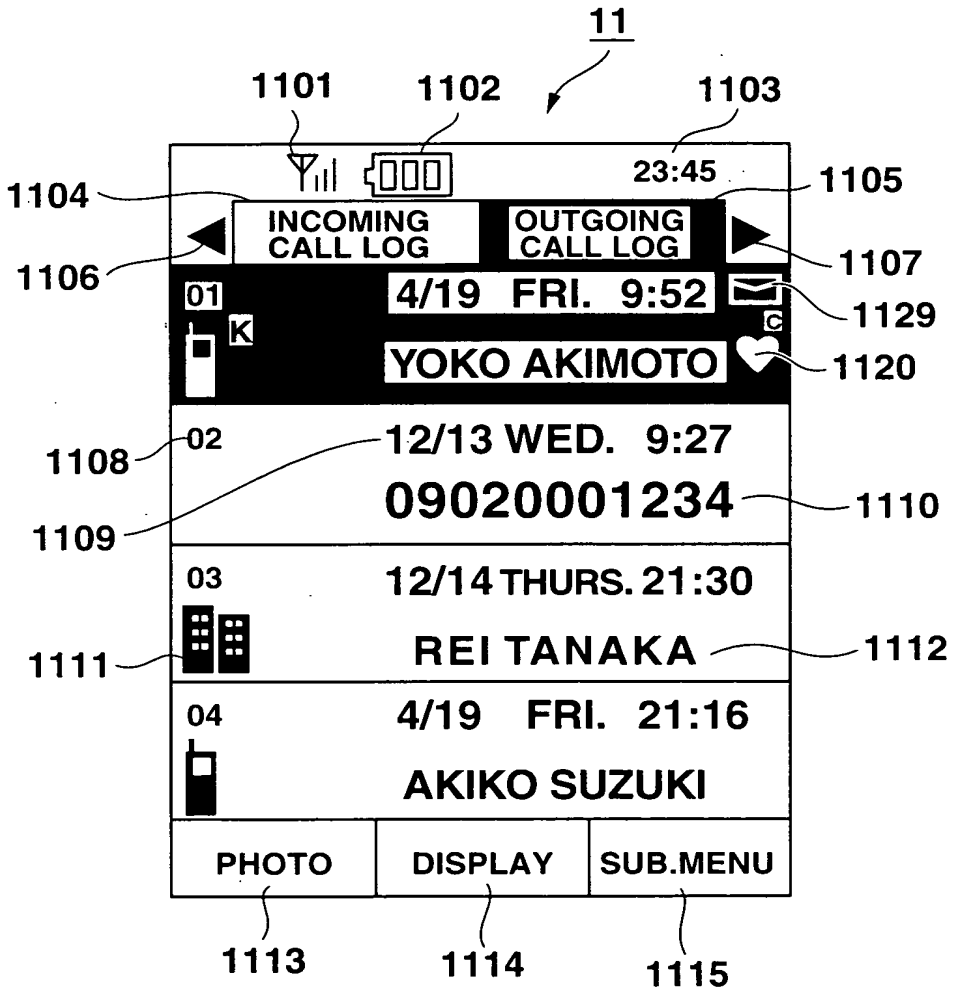

11
1101
1102
1103
23:45
1104
1105
INCOMING CALL LOG
OUTGOING CALL LOG
1106
1107
01
4/19 FRI. 9:52
K
C
1129
YOKO AKIMOTO
1120
1108
02
12/13 WED. 9:27
1109
09020001234
1110
03
12/14 THURS. 21:30
1111
REI TANAKA
1112
04
4/19 FRI. 21:16
AKIKO SUZUKI
PHOTO
DISPLAY
SUB.MENU
1113
1114
1115

FIG.12

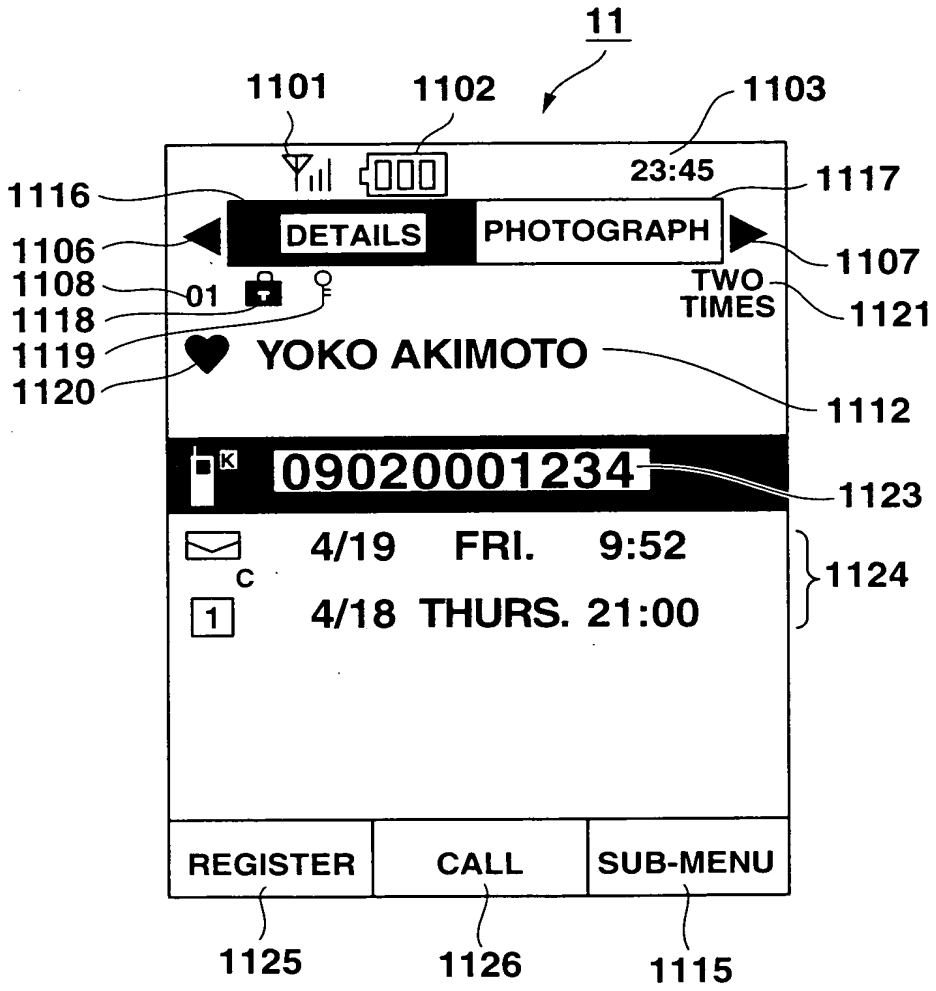

11
1101
1102
1103
23:45
1116
1117
DETAILS
PHOTOGRAPH
1106
1107
1108
01
TWO TIMES
1121
1118
1119
1120
YOKO AKIMOTO
1112
09020001234
1123
4/19 FRI. 9:52
C
1124
1
4/18 THURS. 21:00
REGISTER
CALL
SUB-MENU
1125
1126
1115

FIG.13

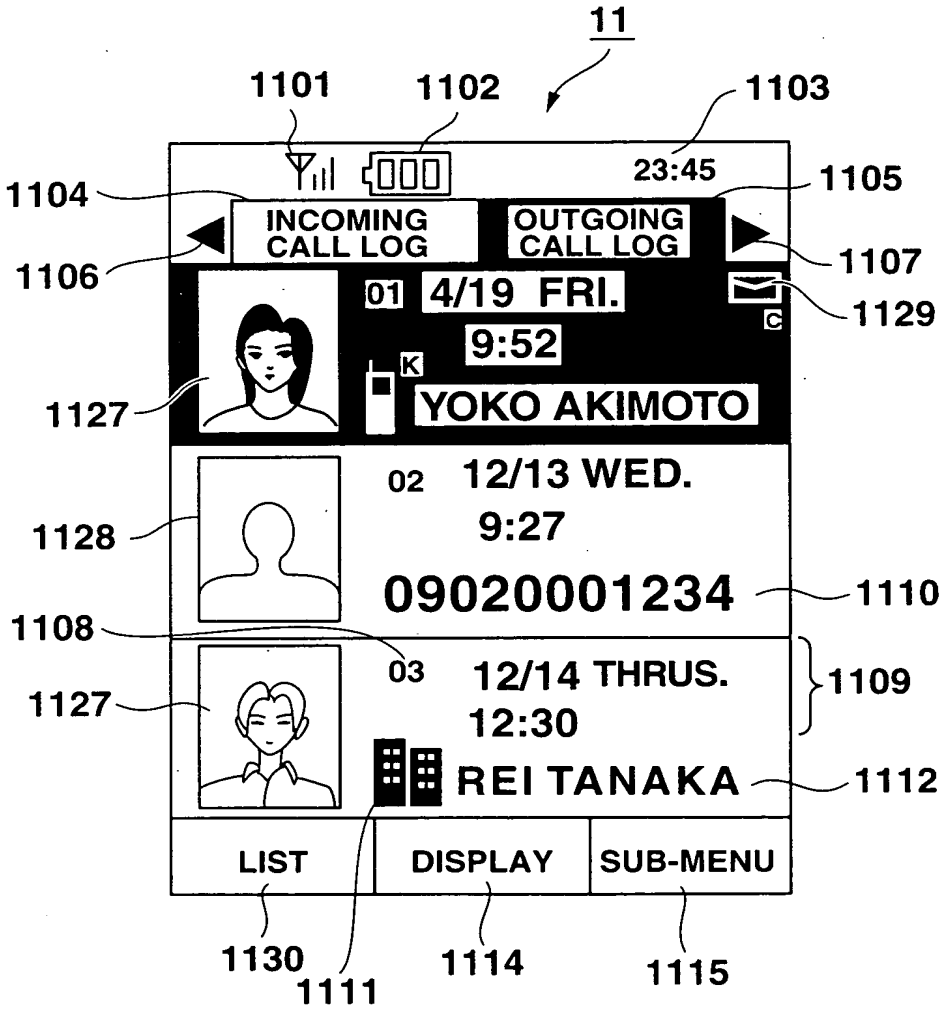

11
1101
1102
1103
23:45
1104
1105
INCOMING CALL LOG
OUTGOING CALL LOG
1106
1107
01 4/19 FRI.
1129
9:52
K
C
1127
YOKO AKIMOTO
02 12/13 WED.
1128
9:27
09020001234
1110
1108
03 12/14 THRUS.
1109
1127
12:30
REI TANAKA
1112
LIST
DISPLAY
SUB-MENU
1130
1111
1114
1115

FIG.14

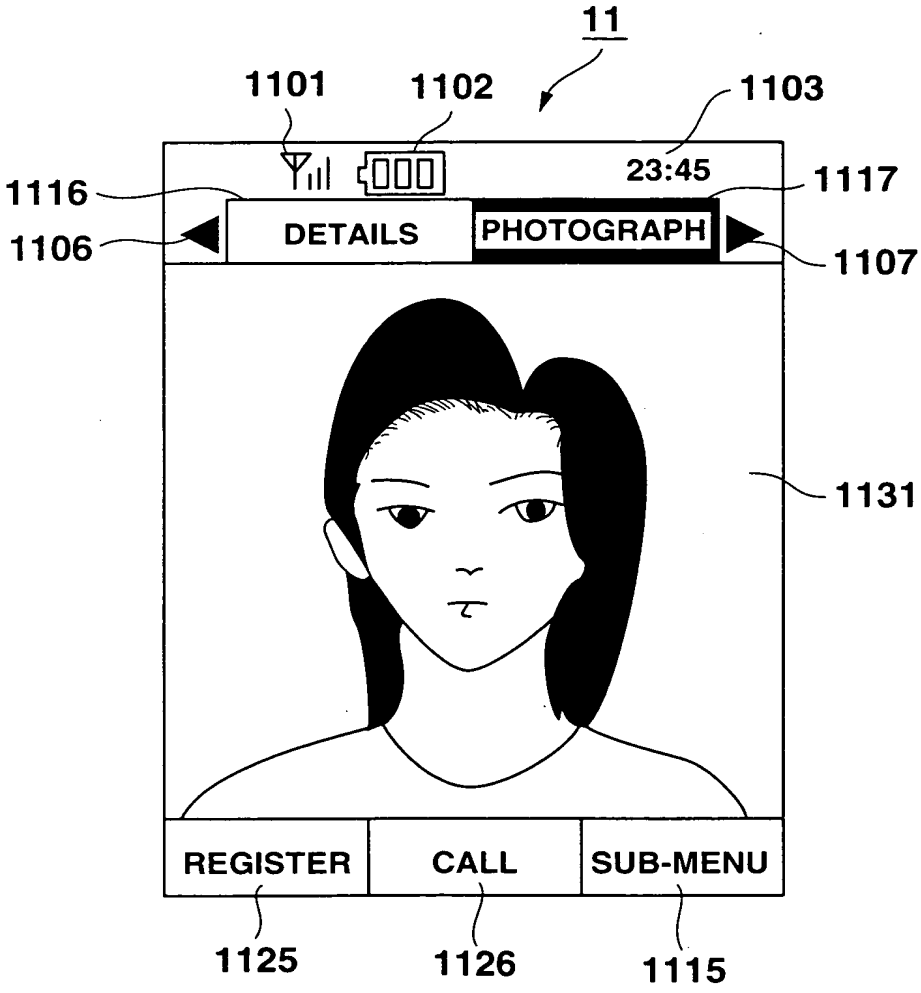

11
1101
1102
1103
23:45
1116
1117
DETAILS
PHOTOGRAPH
1106
1107
1131
REGISTER
CALL
SUB-MENU
1125
1126
1115

FIG.15A

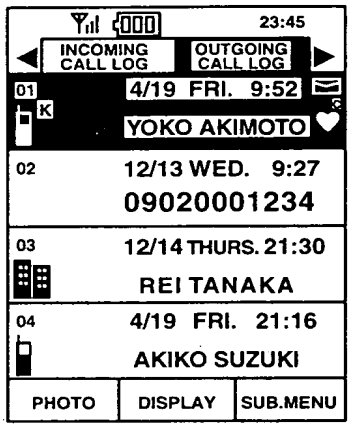
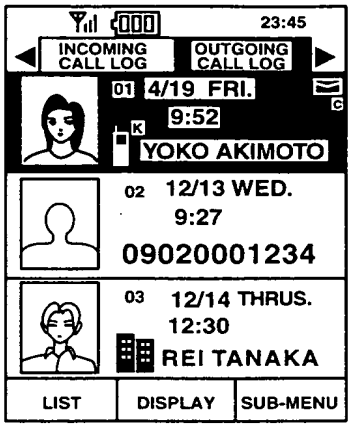
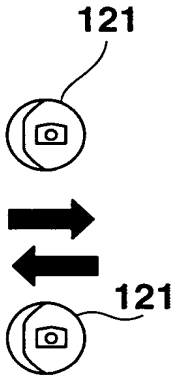
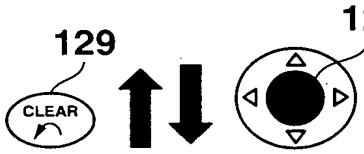
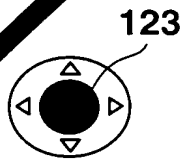


FIG.15C









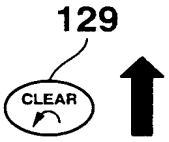


FIG.15B

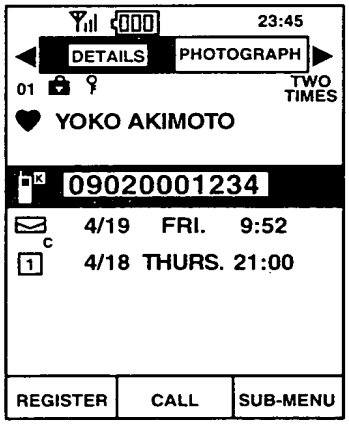
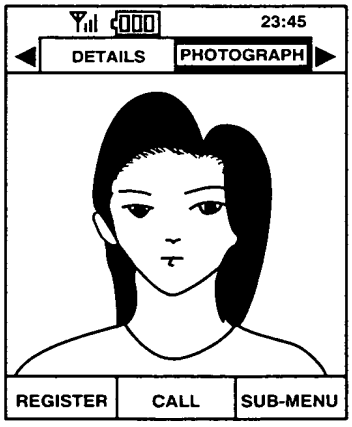
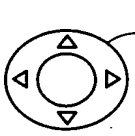


FIG.15D





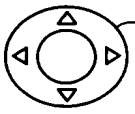


FIG.16

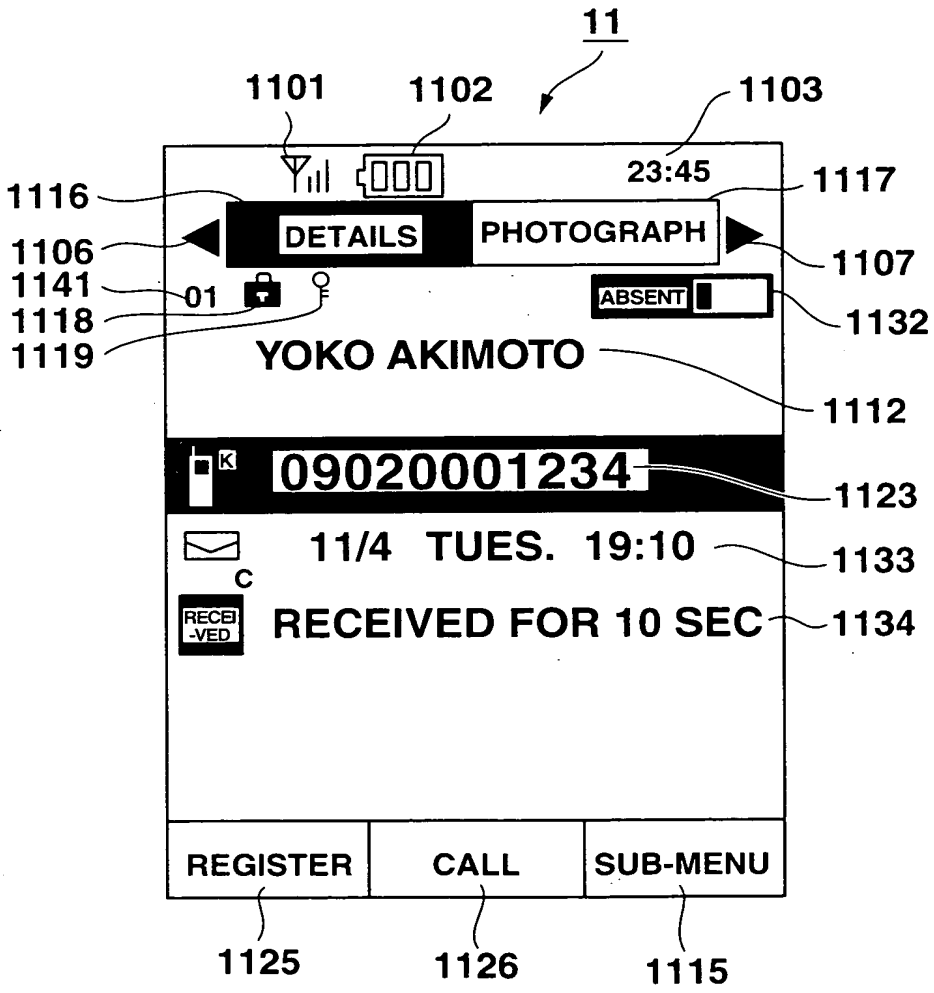

11
1101
1102
1103
23:45
1116
1117
DETAILS
PHOTOGRAPH
1106
1107
1141
01
ABSENT
1118
1132
1119
YOKO AKIMOTO
1112
K
09020001234
1123
11/4 TUES. 19:10
1133
C
RECEIVED FOR 10 SEC
1134
REGISTER
CALL
SUB-MENU
1125
1126
1115

FIG.17

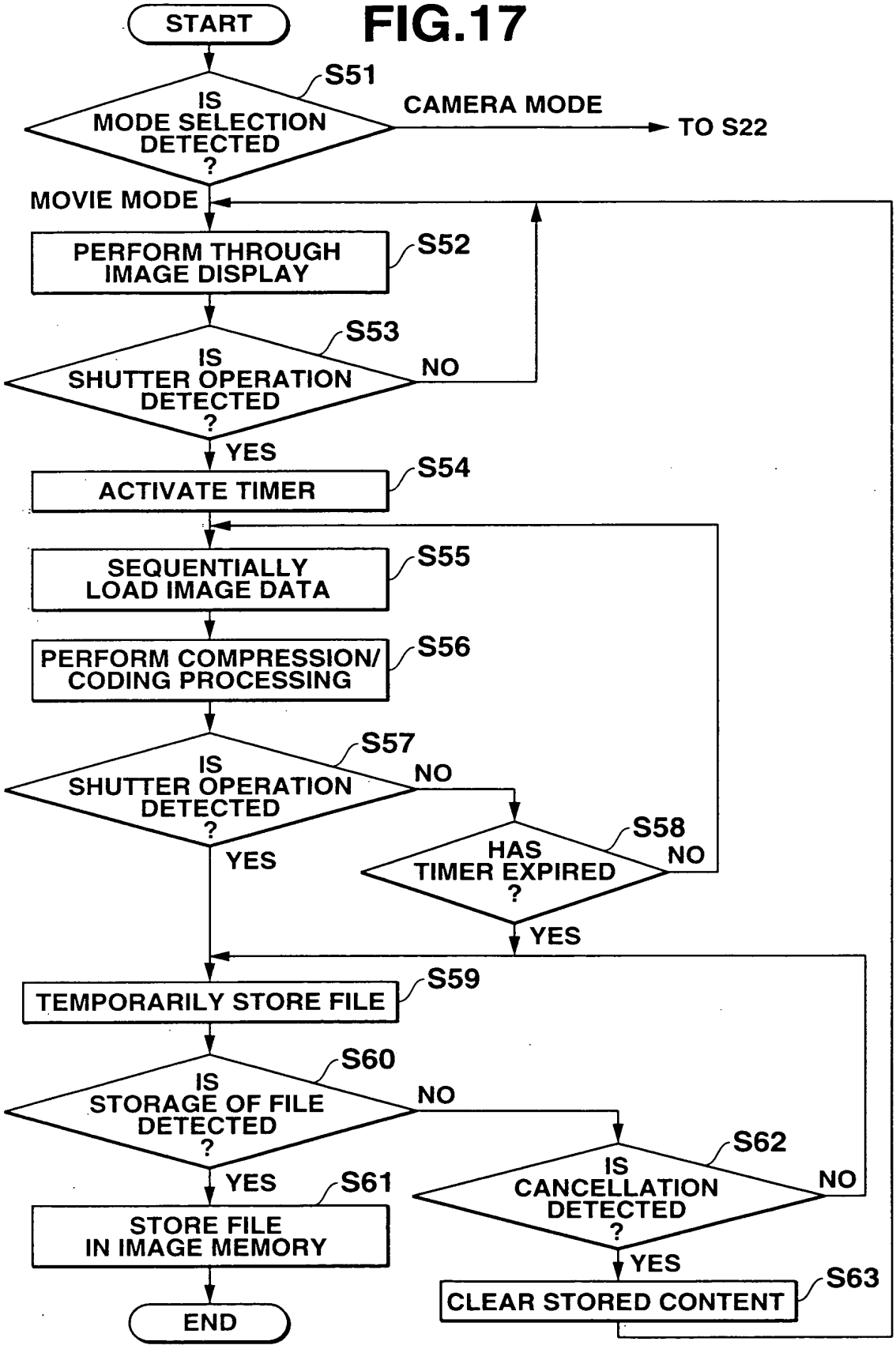

START
S51
IS MODE SELECTION DETECTED ?
CAMERA MODE
TO S22
MOVIE MODE
PERFORM THROUGH IMAGE DISPLAY
S52
S53
IS SHUTTER OPERATION DETECTED ?
NO
YES
ACTIVATE TIMER
S54
SEQUENTIALLY LOAD IMAGE DATA
S55
PERFORM COMPRESSION/ CODING PROCESSING
S56
S57
IS SHUTTER OPERATION DETECTED ?
NO
YES
S58
HAS TIMER EXPIRED ?
NO
YES
TEMPORARILY STORE FILE
S59
S60
IS STORAGE OF FILE DETECTED ?
NO
YES
S61
STORE FILE IN IMAGE MEMORY
END
S62
IS CANCELLATION DETECTED ?
NO
YES
CLEAR STORED CONTENT
S63

FIG.18

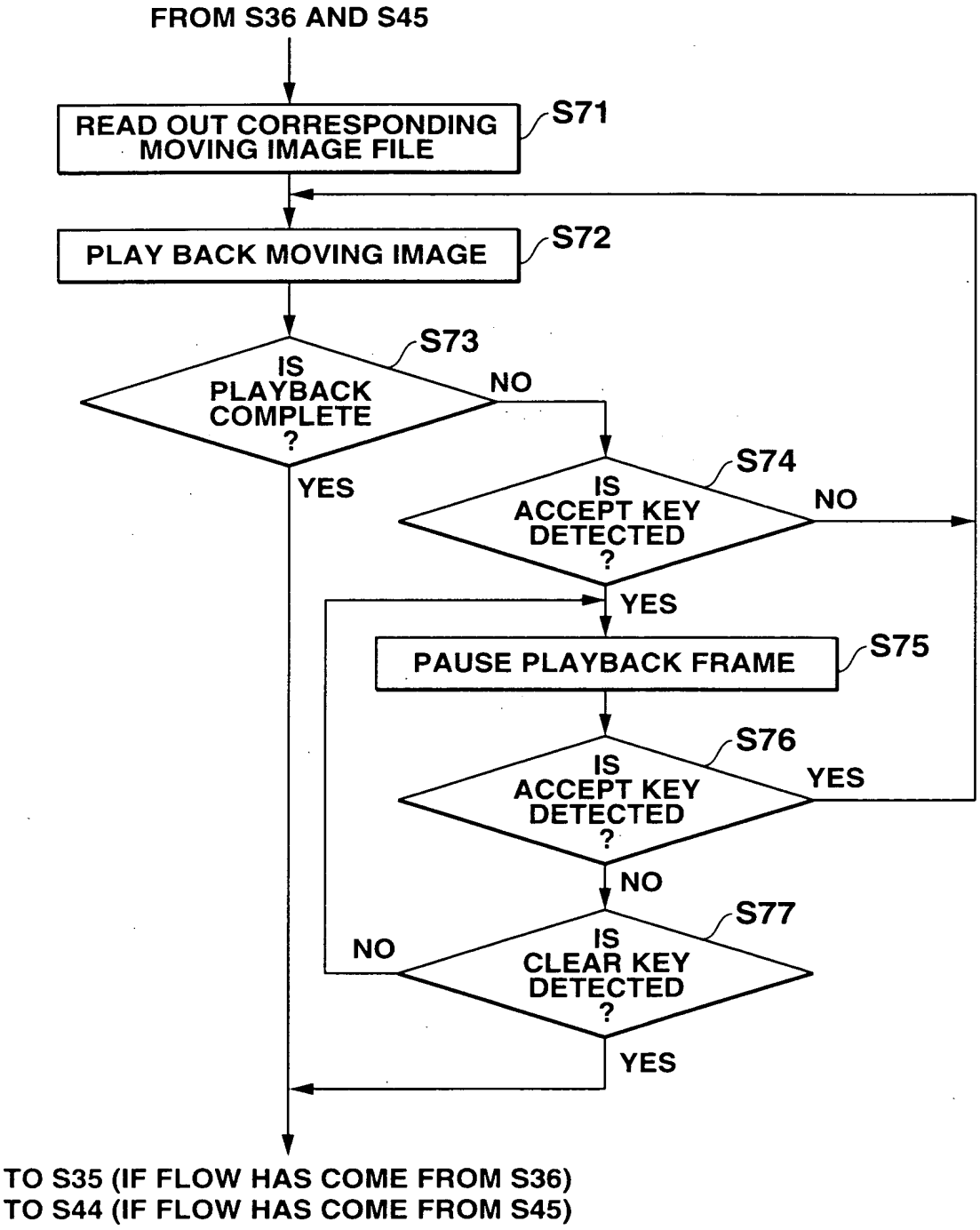
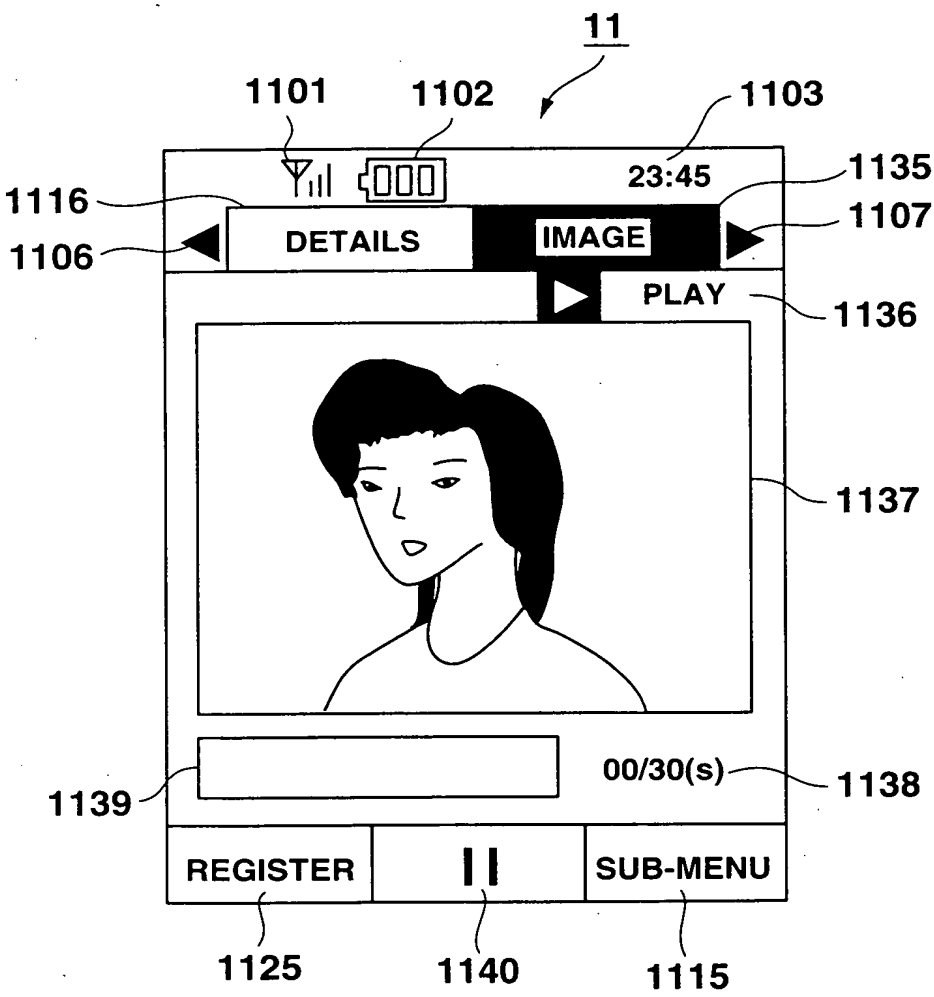

FROM S36 AND S45
READ OUT CORRESPONDING MOVING IMAGE FILE
S71
PLAY BACK MOVING IMAGE
S72
IS PLAYBACK COMPLETE ?
S73
NO
YES
IS ACCEPT KEY DETECTED ?
S74
NO
YES
PAUSE PLAYBACK FRAME
S75
IS ACCEPT KEY DETECTED ?
S76
YES
NO
IS CLEAR KEY DETECTED ?
S77
NO
YES
TO S35 (IF FLOW HAS COME FROM S36)
TO S44 (IF FLOW HAS COME FROM S45)

FIG.19


11
1101
1102
1103
23:45
1135
1116
DETAILS
IMAGE
1107
1106
PLAY
1136
1137
00/30(s)
1138
1139
REGISTER
SUB-MENU
1125
1140
1115